

AMENDMENTS TO THE CLAIMS

Please cancel claims 1 and 3 without prejudice or disclaimer of the underlying subject matter, amend claims 2 and 4-8, and add claim 9 as set forth below:

1. (CANCELED).

2. (CURRENTLY AMENDED) A portable terminal apparatus comprising:

a first receiving system for receiving a quadrature modulated signal and converting the quadrature modulated signal into an intermediate-frequency signal for output;

a second receiving system comprising at least one system for receiving a BPSK modulated signal and converting the BPSK modulated signal into an intermediate-frequency signal for output;

an IF stage for processing both the intermediate-frequency signal of said first receiving system and the intermediate-frequency signal of said second receiving system; and

a signal processing system for processing the signal of said first receiving system that has been passed through said IF stage and the signal of said second receiving system that has been passed through said IF stage,

wherein said IF stage has at least one of a variable gain amplifier for amplifying the intermediate-frequency signal of said first receiving system and the intermediate-frequency signal of said second receiving system and a quadrature demodulator for subjecting the intermediate-frequency signals that have been passed through the variable gain amplifier to quadrature demodulation for output.

3. (CANCELED).

4. (CURRENTLY AMENDED) A portable terminal apparatus as claimed in claim 32, wherein when said IF stage has said quadrature demodulator, said signal processing system includes: a phase shifter for making an I signal and a Q signal of said second receiving system obtained by demodulating the intermediate-frequency signal by said quadrature demodulator coincide with each other in phase; an adder for adding the I signal and the Q signal together that have been passed through said phase shifter; and a correlator

for demodulating said BPSK modulated signal on the basis of an addition output of said adder.

5. (CURRENTLY AMENDED) A portable terminal apparatus as claimed in claim 32, wherein when said IF stage has said quadrature demodulator, said signal processing system includes a correlator for demodulating said BPSK modulated signal on the basis of an I signal or a Q signal of said second receiving system obtained by demodulating the intermediate-frequency signal by said quadrature demodulator.

6. (CURRENTLY AMENDED) A portable terminal apparatus as claimed in claim 32, wherein when said IF stage has said variable gain amplifier and said quadrature demodulator, said portable terminal apparatus includes a control means for fixing gain of said variable gain amplifier at about a maximum gain in demodulating said BPSK modulated signal.

7. (CURRENTLY AMENDED) A portable terminal apparatus as claimed in claim 32, wherein when said IF stage has said variable gain amplifier and said quadrature demodulator, said portable terminal apparatus includes a control means for controlling gain of said variable gain amplifier to a maximum gain while maintaining linearity on the basis of a demodulated signal obtained by demodulating said BPSK modulated signal.

8. (CURRENTLY AMENDED) A portable terminal apparatus as claimed in claim 32, wherein when said IF stage has said variable gain amplifier and said quadrature demodulator, said portable terminal apparatus includes a control means for controlling gain of said variable gain amplifier to about a maximum gain even with nonlinearity on the basis of a demodulated signal obtained by demodulating said BPSK modulated signal.

9. (NEW) A portable terminal apparatus comprising:
a first receiving system for receiving a quadrature modulated signal and converting the quadrature modulated signal into an intermediate-frequency signal for output;
a second receiving system comprising at least one system for receiving a BPSK modulated signal and converting the BPSK modulated signal into an intermediate-frequency signal for output;

an IF stage for processing both the intermediate-frequency signal of said first receiving system and the intermediate-frequency signal of said second receiving system; and

a signal processing system for processing the signal of said first receiving system that has been passed through said IF stage and the signal of said second receiving system that has been passed through said IF stage.